

**INFORMATION DISCLOSURE CITATION**  
Form PTO-1449 (Modified)  
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ATTY. DOCKET NO.  
IRVN-007CIP2

SERIAL NO.  
09/700,354

APPLICANT

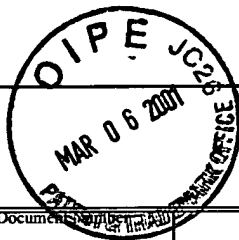
Gatanaga et al.

FILING DATE

November 13, 2000

GROUP

Unassigned



**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

**FOREIGN PATENT DOCUMENTS**

	Document Number	Date	Country	Class	Subclass	Translation
AA	0 657 536 A1	06/14/1995	Europe			Yes    No
AB	WO 98/20140 A	05/14/1998	PCT			

**OTHER ART** (Including Author, Title, Date, Pertinent Pages, Etc.)



AC	Genbank Accession No. AJ003355, deposited October 13, 1997
AD	Genbank Accession No. AA779203, deposited February 6, 1998
AE	Genbank Accession No. U52222, deposited April 26, 1996
AF	Genbank Accession No. T33896, deposited January 14, 1995
AG	Genbank Accession No. AI002979, deposited June 11, 1998
AH	Genbank Accession No. AA806165, deposited February 16, 1998
AI	Genbank Accession No. C06247, deposited August 25, 1996
AJ	Genbank Accession No. AA707194, deposited January 5, 1998
AK	Genbank Accession No. AA599596, deposited September 29, 1997
AL	Gonzalez et al. (1985) "Variation among human 28S ribosomal genes." <i>Proceedings of the National Academy of Sciences of USA</i> , Vol. 82:7666-7670
AM	Katsura et al. (1996) "Identification of the proteolytic enzyme which cleaves human p75 TNG receptor in vitro." <i>Biochem. And Biophys. Research Communications</i> , Vol. 222(278):298-302.
AN	Minet et al. (1990) "Cloning and sequencing of a human cDNA coding for a multifunctional polypeptide of the purine pathway by complementation of the ade2-101 mutant in <i>Saccharomyces cerevisiae</i> ." <i>Curr. Genet.</i> , Vol. 18:287-291.

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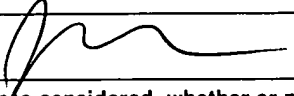
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	AO	Oshima et al. (1988) "The human cation-independent mannose 6-phosphate receptor. Cloning and sequence of the full-length cDNA and expression of functional receptor in cos cells." <i>The Journal of Biological Chemistry</i> , Vol. 5:2553-2562.		
	AP	Porteu et al. (1991) "Human neutrophil elastase releases a ligand-binding fragment from the 75-kDa tumor necrosis factor (TNF) receptor." <i>The Journal of Biological Chemistry</i> , Vol. 266:18846-18853		

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## U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
<i>J</i>	AA	4,761,371	08/02/1988	Bell et al.	<i>11</i>	<i>11</i>	
<i>J</i>	AB	6,083,913	07/04/2000	Dower et al.	<i>11</i>	<i>11</i>	
<i>J</i>	AC	5,395,760	03/07/1995	Smith et al.	<i>11</i>	<i>11</i>	

## FOREIGN PATENT DOCUMENTS

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<i>J</i>	AD	418 014	12/20/1995	Europe	<i>11</i>	<i>11</i>	Yes	No
<i>J</i>	AE	WO 95/31544	11/23/1995	PCT	<i>11</i>	<i>11</i>		
<i>J</i>	AF	WO 95/33051	12/07/1995	PCT	<i>11</i>	<i>11</i>		
<i>J</i>	AG	WO 96/01642	01/25/1996	PCT	<i>11</i>	<i>11</i>		
<i>J</i>	AH	WO 99/58559A2	11/18/1999	PCT	<i>11</i>	<i>11</i>		
<i>J</i>	AI	WO 99/58559A2	11/18/1999	PCT	<i>11</i>	<i>11</i>		

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>J</i>	AJ	(2000) "ENBREL(R) (etanercept) U.S. and European Long-Term Clinical Trial Data Presented at the Annual Meeting of the European League Against Rheumatism." <i>Company News On-Call</i> <a href="http://www.prnewswire.com/cgi-bin/stories.pl?ACCT=105&amp;STORY=/www/story/06-23-2000/0001250565">http://www.prnewswire.com/cgi-bin/stories.pl?ACCT=105&amp;STORY=/www/story/06-23-2000/0001250565</a> (23 Jun 2000).
<i>J</i>	AK	(2000) "Immunex Reports Second Quarter 2000 Results." <i>Immunex Investor Relations</i> <a href="http://www.immunex.com/investor/pressreleases/pr000719.html">http://www.immunex.com/investor/pressreleases/pr000719.html</a> (19 Jul. 2000).
<i>J</i>	AL	Abraham et al., "p55 tumor necrosis factor receptor fusion protein in the treatment of patients with severe sepsis and septic shock", (1997) <i>JAMA</i> 277:1531-1538
<i>J</i>	AM	Aderka et al., "Increased serum levels of soluble receptors for tumor necrosis factor in cancer patients" (1991) <i>Cancer Res.</i> 51:5602-5607
<i>J</i>	AN	Aderka et al., "Variation in serum levels of the soluble INF receptors among healthy individuals." (1992) <i>Lymphokine Cytokine Res.</i> 11:157-159
<i>J</i>	AO	Alderson et al., "Regulation of human monocyte cell-surface and soluble CD23 (FCεRII) by granulocyte-macrophage colony-stimulating factor and IL-33" (1992) <i>J. Immunol.</i> , 149:1252-1257

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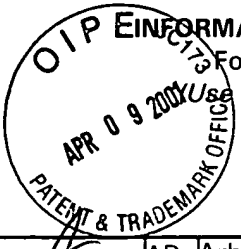
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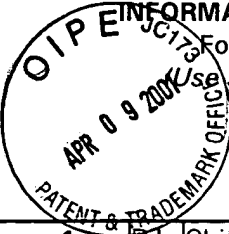
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AP	Arbor et al., "Effects of tumour necrosis factor- $\alpha$ (cachectin) on glucose metabolism in the rat" (1992) <i>Mol. Cell. Biochem.</i> , 112:53-59		
AQ	Argiles et al. (1988) "The metabolic environment of cancer." <i>Mol. Cell. Biochem.</i> , Vol. 81:3-17		
AR	Argiles et al., "Journey from cachexia to obesity by TNF" (1997) <i>FASEB.J.</i> , 11:743-751		
AS	Armitage (1994) Tumor necrosis factor receptor superfamily members and their ligands." (1994) <i>Curr. Opin. Immunol.</i> 6:407-413		
AT	Arner (1996) "Obesity and Insulin Resistance in Swedish Subjects" <i>Diabetes Metab.</i> , Vol. 13:S85-S86		
AU	Ashkenazi et al. (1991) "Protection against endotoxic chock by a tumor necrosis factor receptor immunoadhesin." <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 88:10535-10539		
AV	Banner et al. (1993) "Crystal structure of the soluble human 55 kd receptor-human TNF $\beta$ complex: Implications for TNF receptor activation." <i>Cell</i> , Vol. 73:431-445		
AW	Baran et al. (1988) "Characterization of the soluble murine IL-2R and estimation of its affinity for IL-2." <i>J. Immunol</i> , Vol. 141:539-546.		
AX	Bauditz et al. (1997) "Treatment with tumour necrosis factor inhibitor oxpetifylline does not improve corticosteroid dependent chronic active Crohn's disease." <i>Gut</i> , Vol. 40:470-474		
AY	Baum et al (1994) "Molecular characterization of murine and human OX40/OX40 ligand systems: identification of a human OX40 ligand as the HTLV-1-regulated protein gp34." <i>EMBO J.</i> , Vol. 13:3992-4001		
AZ	Beretz et al. (1990) "Modulation by cytokines of leukocyte-endothelial cell interactions, implications for thrombosis." <i>Biorheology</i> , Vol. 27:455-460		
BA	Bermudez et al., "Effect of stress-related hormones on macrophage receptors and response to tumor necrosis factor" (1990) <i>Lymphokine Res.</i> 9:137-145		
BB	Beutler et al., "Passive immunization against cachectin/tumor necrosis factor protects mice from lethal effect of endotoxin" (1985) <i>Science</i> 229:869-1371		
BC	Bianchi et al., "Increased Brown adipose tissue activity in children with malignant disease" (1989) <i>Horm. Metab. Res.</i> , 21:640-41		
BD	Birkedal-Hansen et al., "Matrix metalloproteinases: A review." (1993) <i>Crit. Rev. Oral Biol. Med.</i> , Vol. 4:197-250		
BE	Bogdan et al. (1991) "Macrophage deactivation by interleukin 10" <i>J. Exp. Med.</i> , Vol. 174:1549-1555.		
BF	Brockhaus et al. (1990) "Identification of 2 types of tumor necrosis factor receptors on human cell lines by monoclonal antibodies." <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 87:3127-3131		
BG	Buck et al. (1996) "Tumor necrosis factor- $\alpha$ inhibits collagen $\alpha 1(1)$ gene expression and wound healing in a murine model of cachexia." <i>Am. J. Pathol.</i> , Vol. 149:195-204		
BH	Calvano et al. (1996) "Monocyte tumor necrosis factor receptor levels as a predictor of risk in human sepsis." <i>Arch. Surg.</i> , Vol. 131:434-437.		
BI	Carcoran et al. (1994) "Characterization of ligand binding by the human p55 tumour-necrosis-factor receptor." <i>Eur. J. Biochem.</i> , Vol. 223:831-840.		

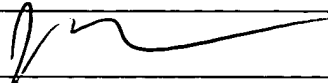
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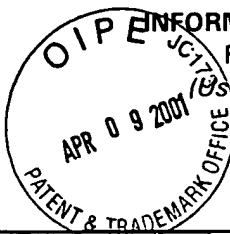
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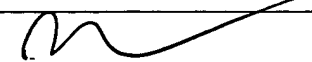
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BJ	Chitambar (1991) "Shedding of transferring receptor from rat reticulocytes during maturation in vitro: Soluble transferring receptor is derived from receptor shed in vesicles." <i>Blood</i> , Vol. 78:2444-2450		
BK	Colotta et al. (1993) "Interleukin-1 type II receptor: A decoy target of IL-1 that is regulated by IL-4." <i>Science</i> , Vol. 261:472-475		
BL	Cornelius et al "Regulation of lipoprotein lipase mRNA content in 3T3-L1 cells by tumour necrosis factor" (1988) <i>Biochem. J.</i> 249:765-769		
BM	Cosman, "A family of ligands for the TNF receptor superfamily" (1994) <i>Stem cells</i> (Dayt.) 12:440-455		
BN	Costelli et al., "Tumor necrosis factor- $\alpha$ mediates changes in tissue protein turnover in a rat cancer cachexia model" (1993) <i>J. Clin. Invest.</i> 92:2783-2789		
BO	Crowe et al., "A metalloprotease inhibitor blocks shedding of the 80-kD TNF receptor and TNF processing in T-lymphocytes" (1995) <i>J. Exp. Med.</i> , 181:1205-1210		
BP	de Waal Malefyt et al., "Interleukin 10(IL-10) inhibits cytokine synthesis by human monocytes: An autoregulatory rule of IL-10 produced by monocytes" (1991) <i>J. Exp. Med.</i> , 174:1209-1220		
BQ	Dean et al., "Evidence for metalloproteinase and metalloproteinase inhibitor imbalance in human osteoarthritic cartilage" (1989) <i>J. Clin. Invest.</i> 84:678-85		
BR	Dembic et al. "Two human TNF receptors have similar extracellular, but distinct intracellular, domain sequences" (1990) <i>Cytokine</i> , 2:231-237		
BS	Derks et al., "High levels of interleukin-10 during the initial phase of fulminant meningococcal septic shock" (1995) <i>J. Infect. Dis.</i> 171:229-232		
BT	Dessi et al. "Perturbations of triglycerides but not of cholesterol metabolism are prevented by anti-tumour necrosis factor treatment in rats bearing an ascites hepatoma (Yoshida AH-130)" (1995) <i>Br. J. Cancer</i> 72:1138-1143		
BU	Dett et al., "Enhancement of lymphokine-activated T killer cell tumor necrosis factor receptor mRNA transcription, tumor necrosis factor receptor membrane expression, and tumor necrosis factor/lymphotoxin release by IL-1 $\beta$ , IL-4, and IL-6 in vitro" (1991) <i>J. Immunol.</i> 146:1522-1526		
BV	Diez-Ruiz et al., "Soluble receptors for tumour necrosis factor in clinical laboratory diagnosis" (1995) <i>Eur. J. Haematol.</i> 54:1-8		
BW	Driscoll, K., "Macrophage; inflammatory proteins" (1994) <i>Exp. Lung Res.</i> 20:474-490		
BX	Dubravec et al., "Circulating human peripheral blood granulocytes synthesis and secrete tumor necrosis factor $\alpha$ ." (1990) <i>Proc. Natl. Acad. Sci. USA</i> 87:6768-6761		
BY	Durez et al., "In vivo induction of interleukin 10 by anti-CD3 monoclonal antibody or bacterial lipopolysaccharide: Differential modulation by cyclosporin A" (1993) <i>J. Exp. Med.</i> 177:551-555		
BZ	Echtenacher et al. (1996) "Critical productive role of mast cells in a model of acute septic peritonitis." <i>Nature</i> , Vol. 381:75-77		

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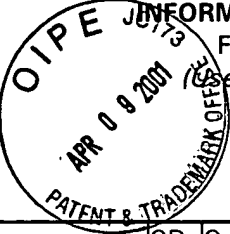
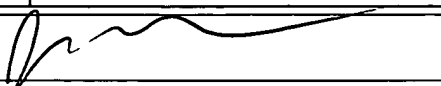
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J	CA	Engelmann et al. (1989) "A tumor necrosis factor-binding protein purified to homogeneity from human urine protects cells from tumor necrosis factor toxicity." <i>J. Biol. Chem.</i> , Vol. 264:11974-11980
J	CB	Engelmann et al. (1990) "Two tumor necrosis factor-binding proteins purified from human urine." <i>J. Biol. Chem.</i> , Vol. 265:1531-1536.
J	CC	Ertel et al. (1994) "Increased release of soluble tumor necrosis factor receptors into blood during clinical sepsis." <i>Arch. Surg.</i> , Vol. 129:1330-1337
J	CD	Evans et al. (1988) "Tumour necrosis factor I (cachetin) mimics some of the effects of tumour growth on the disposal of a [ <sup>14</sup> C] lipid load in virgin, lactating and litter-removed rats." <i>Biochem. J.</i> , Vol. 256:1055-1058
J	CE	Fargeas et al. (1993) "Central action of interleukin 1 on intestinal motility in rats: Mediation by two mechanisms." <i>Gastroenterology</i> , Vol. 104:377-383
J	CF	Feingold et al. (1992) "Stimulation of lipolysis in cultured fat cells by tumor necrosis factor, interleukin-1, and the interferons is blocked by inhibition of prostaglandin synthesis." <i>Endocrinology</i> , Vol. 130:10-16
J	CG	Fenner (1995) "TNF-inhibitoren: Eine neue therapeutische perspective bei chronischentzündlichen Erkrankungen in der Rheumatologie?" <i>Z. Rheumatol.</i> , Vol. 54:158-164
J	CH	Ferrante (1992) "Activation of neutrophils by interleukins-1 and -2 and tumor necrosis factors." <i>Immunol. Ser.</i> , Vol. 57:417-436
J	CI	Fiers (1991) "Tumor necrosis factor: Characterization at the molecular, cellular and in vivo level." <i>FEBS Letters</i> , Vol. 285:199-212
J	CJ	Fiorentino et al. (1991) "IL-10 inhibits cytokine production by activated macrophages." <i>J. Immunol.</i> , Vol. 147:3815-3822
J	CK	Fisher et al. (1996) "Treatment of septic shock with the tumor necrosis factor receptor: Fc fusion protein." <i>N. Engl. J. Med.</i> , Vol. 334:1697-1702
J	CL	Fried et al. (1989) "Cachetin/tumor necrosis factor decreases human adipose tissue lipoprotein lipase mRNA levels, synthesis, and activity." <i>J. Lipid Res.</i> , Vol. 30:1917-1923
J	CM	Fukunaga et al. (1990) "Three different mRNAs encoding human granulocyte colony-stimulating factor receptor." <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 87:8702-8706
J	CN	Garcia-Martinez et al. (1993) "Tumour necrosis factor-I increased the ubiquitination of rat skeletal muscle proteins." <i>FEBS Letters.</i> , Vol. 323:211-214
J	CO	Gatanaga et al. (1990) "Identification of TNF-LT blocking factor(s) in the serum and ultrafiltrates of human cancer patients." <i>Lymphokine Res.</i> , Vol. 9:225-229
J	CP	Gatanaga et al. (1990) "Purification and characterization of an inhibitor (soluble tumor necrosis factor receptor) for tumor necrosis factor and lymphotoxin obtained from the serum ultrafiltrates of human cancer patients." <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 87:8781-8784
J	CQ	Gatanaga et al. (1991) "The regulation of TNF receptor mRNA synthesis, membrane expression, and release by PMA- and LPS-stimulated human monocytic THP-1 cells in vitro." <i>Cell Immunol.</i> , Vol. 138:1-10

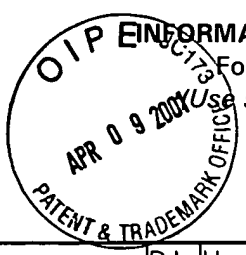
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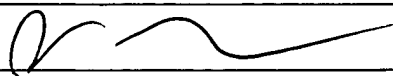
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CR	Gatanaga et al. (1993) "Release of soluble TNF/LT receptors from a human ovarian tumor cell line (PA-1) by stimulation with cytokines in vitro." <i>Lymphokine and Cytokine Res.</i> , Vol. 12:249-253.		
CS	Gearing et al. (1994) "Processing of tumour necrosis factor-I precursor by metalloproteinases." <i>Nature</i> , Vol. 370:555-557		
CT	Gearing et al. (1995) "Matrix metalloproteinases and processing of pro-TNF-I." <i>J. Leukoc. Biol.</i> , Vol. 57:774-777		
CU	Gehr et al. (1992) "Both tumor necrosis factor receptor types mediate proliferative signals in human mononuclear cell activation." <i>J. Immunol.</i> , Vol. 149:911-917		
CV	Gerard et al. (1993) "Interleukin 10 reduces the release of tumor necrosis factor and prevents lethality in experimental endotoxemia." <i>J. Exp. Med.</i> , Vol. 177:547-550		
CW	Golstein et al. (1991) "Cell death mechanisms and the immune system." <i>Immunol. Rev.</i> , Vol. 121:29-65		
CX	Goodman (1991) "Tumor necrosis factor induces skeletal muscle protein breakdown in rats." <i>Am. J. Physiol.</i> , Vol. 260:E727-730		
CY	Goodwin et al. (1990) "Cloning of the human and murine interleukin-7 receptors: Demonstration of a soluble form and homology to a new receptor superfamily." <i>Cell</i> , Vol. 60:941-951		
CZ	Gorton et al., "Mast cells as a source of preformed and immunologically inducible TNF-I /cachectin" (1990) <i>Nature</i> 346:274-276		
DA	Grau et al., "Tumor necrosis factor (cachectin) as an essential, mediator in murine cerebral malaria" (1987) <i>Science</i> 237:1210-1212		
DB	Grell et al., "Segregation of APO-1 /Fas antigen- and tumor necrosis factor receptor-mediated apoptosis" (1994) <i>Euro. J. Immunol.</i> 24:2563-2566		
DC	Grosen et al., "Measurement of the soluble membrane receptors for tumor necrosis factor and lymphotoxin in the sera of patients with gynecologic malignancy" (1993) <i>Gynecol. Oncol.</i> 50:68-77		
DD	Grunfeld et al., "Endotoxin and cytokines induce expression of leptin, the ob gene product, in hamsters" (1996) <i>J. Clin. Invest.</i> 97:2152-2157		
DE	Gullberg et al., "Involvement of an Asn/Gal cleavage site in the production of a soluble form of a human tumor necrosis factor (TNF) receptor. Site-directed mutagenesis of a putative cleavage site in the p55 TNF receptor chain" <i>Eur. J. Cell. Biol.</i> (1992) 58:307-312		
DF	Hahne et al., "A novel soluble form of mouse VCAM-1 is generated from a glycolipid-anchored splicing variant" (1994) <i>Eur. J. Immunol.</i> 24:421-428		
DG	Halwachs et al., "Serum levels of the soluble receptor for tumor necrosis factor in patients with renal disease" (1994) <i>Clin. Invest.</i> 72:473-476		
DH	Hauner et al., "Effects of tumour necrosis factor alpha (TNF $\alpha$ ) on glucose transport and lipid metabolism of newly-differentiated human fat cells in cell culture (1995) <i>Diabetologia</i> 38:764-771		
DI	Heller et al., "Complementary DNA cloning of a receptor for tumor necrosis factor and demonstration of a shed form of the receptor" (1990) <i>Proc. Natl. Acad. Sci. USA</i> 87:6151-6155		
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DJ	Henney et al., "Localization of stromelysin gene expression in atherosclerotic plaques by in situ hybridization" (1991) <i>Proc. Natl. Acad. Sci. USA</i> 88:8154-8158		
DK	Hillier et al. (1996) "Generation and analysis of 280,000 human expressed sequence tags." <i>Genome Research</i> , Vol. 6(9):807-828.		
DL	Himmeler et al., "Molecular cloning and expression of human and rat tumor necrosis factor receptor chain (p60) and its soluble derivative, tumor necrosis factor-binding protein" (1990) <i>DNA Cell Biol.</i> 9:705-715		
DM	Hintzen et al., "Characterization of the human CD27 ligand, a novel member of the TNF gene family" (1994) <i>J. Immunol.</i> 152:1762-1773		
DN	Hjemdahl et al., "9-adrenoceptors in human alveolar macrophages isolated by elutriation" (1990) <i>Br. J. Clin. Pharmacol.</i> 30:673-682		
DO	Hofmann et al., "Altered gene expression for tumor necrosis factor-1 and its receptors during drug and dietary modulation of insulin resistance" (1994) <i>Endocrinology</i> 134:264-270		
DP	Holtmann et al., (1987) <i>J. Immunol.</i> 139:151-153		
DQ	Hotamisligil et al., "Increased adipose tissue expression of tumor necrosis in human obesity and insulin resistance" (1995) <i>J. Clin. Invest.</i> 95:2409-2415		
DR	Howard et al., "Interleukin 10 protects mice from lethal endotoxemia" (1993) <i>J. Exp. Med.</i> 177:1205-1208		
DS	Hu et al., "The effect of norepinephrine on endotoxin-mediated macrophage activation" (1991) <i>J. Neuroimmunol.</i> 31:35-42		
DT	Huizinga et al., "The PI-linked receptor FcRIII is released on stimulation of neutrophils" (1988) <i>Nature</i> 333:667-669		
DU	Jin et al., "Protection against rat endotoxic shock by p55 tumor necrosis factor (TNF) receptor immunoadhesin: Comparison with anti-TNF monoclonal antibody" (1994) <i>J. Infect. Dis.</i> 170:1323-1326		
DV	Joyce et al., "Two inhibitors of pro-inflammatory cytokine release, interleukin-10 and interleukin-4, have contrasting effects on release of soluble p75 tumor necrosis factor receptor by cultured monocytes" (1994) <i>Eur. J. Immunol.</i> 24:2699-2705		
DW	Kalinkovich et al. "Increased soluble tumor necrosis factor receptor expression and release by human immunodeficiency virus type 1 infection" (1995) <i>J. Interferon Cyto. Res.</i> 15:749-757		
DX	Katsura et al. (1996) "Identification and characterization of soluble TNF receptor releasing enzyme (TRRE) from PMA-stimulated human monocytic THP-1 cells." <i>Proc. Amer. Cancer Res. Meeting</i> , Vol. 37:492		
DY	Kawakami et al. (1987) "Human recombinant TNF suppresses lipoprotein lipase activity and stimulates lipolysis in 3T3-LT cells." <i>J. Biochem.</i> , Vol. 101:331-338		
DZ	Khire et al. (1990) "EGF stimulates the processing and export of a secreted form of EGF receptor." <i>Febs. Lett.</i> , Vol. 272:69-72		
EA	Khokha et al. (1989) "Antisense RNA-induced reduction in murine TIMP levels confers oncogenicity on Swiss 3T3 cells." <i>Science</i> , Vol. 243:947-950		

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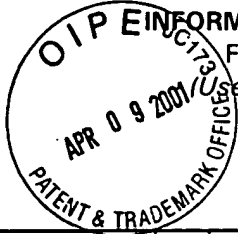
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		FILING DATE November 13, 2000	GROUP Unassigned
✓	EC	Klinkert et al. (1997) "TNR- $\alpha$ receptor fusion protein prevents experimental auto-immune encephalomyelitis and demyelination in Lewis rats: an overview." <i>J. Neuroimmun.</i> , Vol. 72:163-168	
✓	ED	Kohno et al. (1990) "A second tumor necrosis factor receptor gene product can shed a naturally occurring tumor necrosis factor inhibitor." <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 87:8331-8335	
✓	EE	Kriegler et al. (1988) "A novel form of TNF/cachectin is a cell surface cytotoxic transmembrane protein: Ramifications for the complex physiology of TNF." <i>Cell</i> , Vol. 53:45-53	
✓	EF	Lambert et al. (1994) "Natural serum TNF antagonists in end-stage renal failure and following renal transplantation." <i>Nephrol. Dia. Transplant.</i> , Vol. 9:1791-1796	
✓	EG	Landmann et al. (1992) "Interferon- $\gamma$ and interleukin-4 down-regulate soluble CD14 release in human monocytes and macrophages." <i>J. Leukoc. Biol.</i> , Vol. 52:323-330	
✓	EH	Latza et al. (1995) "CD30 antigen in embryonal carcinoma and embryogenesis and release of the soluble molecule." <i>Am. J. Pathol.</i> , Vol. 146:463-471	
✓	EI	Lawson et al. (1982) "Metabolic approaches to cancer cachexis." <i>Annu. Rev. Nutr.</i> , Vol. 2:277-301	
✓	EJ	Leeuwenberg et al. (1994) "Slow release of soluble TNF receptors by monocytes in vitro." <i>J. Immunol.</i> , Vol. 152:4036-4043	
✓	EK	Leffers (1993) "The sequence of 28S ribosomal RNA varies within and between human cell lines." <i>Nucleic Acid Research</i> , Vol. 21(6):1449-1455	
✓	EL	Lesslauer et al. (1991) "Recombinant soluble tumor necrosis factor receptor proteins protect mice from lipopolysaccharide-induced lethality." <i>Eur. J. Immunol.</i> , Vol. 21:2883-2886	
✓	EM	Lesslauer, et al., "Recombinant soluble tumor necrosis factor receptotr proteins protect mice form lipopolysaccharide-induced lethality," <i>Eur. J. of Immunol.</i> (1991) Vol. 21:2883-2886.	
✓	EN	Llovera et al. (1993) "Effects of tumor necrosis factor- $\alpha$ on muscle-protein turnover in female Wistar rats." <i>J. Natl. Cancer Inst.</i> , Vol. 85:1334-1339	
✓	EO	Loenen et al. (1992) "The CD27 membrane receptor, a lymphocyte-specific member of the nerve growth factor receptor family, gives rise to a soluble form by protein processing that odes not involve receptor endocytosis." <i>Eur. J. Immunol.</i> , Vol. 22:447-455	
✓	EP	Loetscher et al. (1990) "Molecular Cloning can expression of the human 55kd tumor necrosis factor receptor." <i>Cell</i> , Vol. 61:351-359	
✓	EQ	Loetscher et al. (1990) "Purification and partial amino acid sequence analysis of two distinct tumor necrosis factor receptors from HL60 cells." <i>J. Biol. Chem.</i> , Vol. 265:20131-20138	
✓	ER	Lopez-Casillas et al. (1991) "Structure and expression of the membrane proteoglycan betaglycan, a component of the TGF- $\beta$ receptor system." <i>Cell</i> , Vol. 67:785-795	
✓	ES	Lovejoy et al. (1994) "Structure of the catalytic domain of fibroblast collagenase complexed with an inhibitor." <i>Science</i> , Vol. 263:375-377	
✓		Lowry et al. (1992) "Metal ion stabilization of conformation of a recombinant 19-kDa catalytic fragment of human fibroblast collagenase." <i>Proteins</i> , Vol. 12:42-48	

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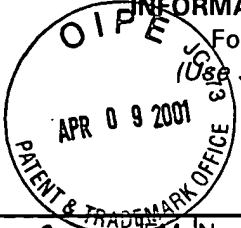
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ET	Madej et al. (1995) "Threading analysis suggests that the obese gene product may be a helical cytokine." <i>FEBS Lett.</i> , Vol. 373:13-18		
EU	Marchant et al. (1994) "Interleukin-10 controls interferon- $\gamma$ and tumor necrosis factor production during experimental endotoxemia." <i>Eur. J. Immunol.</i> , Vol. 24:1167-1171		
EV	Marchant et al. (1994) "Interleukin-10 production during septicemia." <i>Lancet</i> , Vol. 343:707-708		
EW	Massague (1996) "TGF $\beta$ signaling: Receptors, transducers, and mad proteins." <i>Cell</i> , Vol. 85:947-950		
EX	Massague et al. (1993) "Membrane-anchored growth factors." <i>Annu. Rev. Biochem.</i> , Vol. 62:515-541		
EY	Matrisian (1990) "Metalloproteinases and their inhibitors in matrix remodeling." <i>Trends Genet.</i> , Vol. 6:121-125		
EZ	Meakin et al. (1992) "The nerve growth factor family of receptors." <i>Trends Neurosci.</i> , Vol. 15:323-331		
FA	Michie et al. (1988) "Detection of circulating tumor necrosis factor after endotoxin administration." <i>New Engl. J. Med.</i> , Vol. 318:1481-1486		
FB	Mignatti et al. (1986) "Tumor invasion through the human amniotic membrane: Requirement for a proteinase cascade." <i>Cell</i> , Vol. 47:487-498		
FC	Miles et al. (1992) "Induction of soluble tumour necrosis factor receptors during treatment with interleukin-2." <i>Br. J. Cancer</i> , Vol. 66:1195-1199		
FD	Mohler et al. (1993) "Soluble tumor necrosis factor (TNF) receptors are effective therapeutic agents in lethal endotoxemia and function simultaneously as both TNF carriers and TNF antagonists." <i>J. Immunol.</i> , Vol. 151:1548-1561		
FE	Mohler et al. (1994) "Protection against a lethal dose of endotoxin by an inhibitor of tumour necrosis factor processing." <i>Nature</i> , Vol. 370:218-220		
FF	Mohler, et al., "Soluble tumor necrosis factor (TNF) receptors are effective therapeutic agents in lethal endotoxemia and function simultaneously as both TNF carriers and TNF Antagonists," <i>J. of Immunol.</i> (Aug. 1, 1993) Vol. 151(3):1548-1561.		
FG	Moller et al. (1994) "Expression of APO-1(CD95), a member of the NGF/TNF receptor superfamily, in normal and neoplastic colon epithelium." <i>Int. J. Cancer</i> , Vol. 57:371-377		
FH	Moore (1993) "Interleukin-10" <i>Annu. Rev. Immunol.</i> , Vol. 11:165-190		
FI	Moreland et al. (1997) "Treatment of rheumatoid arthritis with a recombinant human tumor necrosis factor receptor (p75)-Fc fusion protein." <i>N. Eng. J. Med.</i> , Vol. 337:141-147		
FJ	Morgan et al. (1987) "Insulin-like growth factor II receptor as a multifunctional binding protein." <i>Nature</i> , Vol. 329(6137):301-307		
FK	Mosley et al. (1989) "The murine interleukin-4 receptor: Molecular cloning and characterization of secreted and membrane bound forms." <i>Cell</i> , Vol. 59:335-348		
FL	Mullberg et al. (1995) "A metalloprotease inhibitor blocks shedding of the IL-6 receptor and the p60 TNF receptor." <i>J. Immunol.</i> , Vol. 155:5198-5205		


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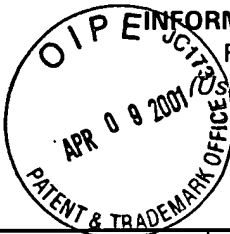
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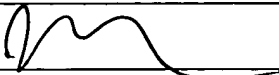
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FM	Neurath et al. (1997) "Predominant pathogenic role of tumor necrosis factor in experimental colitis in mice." <i>Eur. J. Immuno.</i> , Vol. 27:1743-1750		
FN	Nicholls (1983) "The thermogenic mechanism of brown adipose tissue." <i>Biosci. Rep.</i> , Vol. 3:431-441		
FO	Nopfar et al. (1990) "Soluble forms of tumor necrosis factor receptors (TNF-Rs). The cDNA for the type 1 TNF-R, cloned using amino acid sequence data of its soluble form, encodes both the cell surface and a soluble form of the receptor." <i>EMBO J.</i> , Vol. 9:3269-3278		
FP	Novick et al. (1989) "Soluble cytokine receptors are present in normal human urine." <i>J. Exp. Med.</i> , Vol. 170:1409-1414		
FQ	Ogiwara et al. (1994) "Diminished visceral adipose tissue in cancer cachexia." <i>J. Surg. Oncol.</i> , Vol. 57:129-133		
FR	Old (1987) "Another chapter in the long history of endotoxin." <i>Nature</i> , Vol. 330:602-603		
FS	Oliff et al. (1987) "Tumors secreting human TNF/cachectin induce cachexia in mice." <i>Cell</i> , Vol. 50:555-563		
FT	Olsson et al. (1992) "Isolation and characterization of a tumor necrosis factor binding protein from urine." <i>Eur. J. Haematol.</i> , Vol. 42:270-275		
FU	Olsson et al. (1992) "The receptors for regulatory molecules of hematopoiesis." <i>Eur. J. Haematol.</i> , Vol. 48:1-9		
FV	Olsson et al. (1993) "Tumour necrosis factor (TNF) binding proteins (soluble TNF receptor forms) with possible roles in inflammation and malignancy." <i>Eur. Cytokine Netw.</i> , Vol. 4:169-180		
FW	Oudart et al. (1995) "Stimulation of brown adipose tissue activity in tumor-bearing rats." <i>Can. J. Physiol. Pharmacol.</i> , Vol. 73:1625-1631		
FX	Pandiella et al. (1991) "Cleavage of the membrane precursor for transforming growth factor $\alpha$ is a regulated process." <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 88:1726-1730		
FY	Peetre et al. (1988) "A tumor necrosis factor binding protein is present in human biological fluids." <i>Eur. J. Haematol.</i> , Vol. 41:414-419		
FZ	Phillips et al. (1996) "Leptin receptor missense mutation in the fatty Zucker rat" <i>Nature Genet.</i> , Vol. 13:18-19		
GA	Plata-Salaman et al. (1994) "Chemokines/intercrines and central regulation of feeding." <i>Am. J. Physiol.</i> , Vol. 266:R1711-R1715		
GB	Porat et al. (1995) "Glycosylated recombinant human tumor necrosis factor binding protein-1 reduces mortality, shock, and production of tumor necrosis factor in rabbit Escherichia coli sepsis." <i>Crit. Care Med.</i> , Vol. 23:1080-1089		
GC	Porteu (1994) "Tumor necrosis factor induces a selective shedding of its p75 receptor from human neutrophils." <i>J. Biol. Chem.</i> , Vol. 269:2834-2840		
GD	Porteu et al. (1990) "Shedding of tumor necrosis factor receptors by activated human neutrophils." <i>J. Exp. Med.</i> , Vol. 172:599-607		

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J	GE	Price et al. (1986) "Regulation of lipoprotein lipase synthesis by recombinant tumor necrosis factor – the primary regulatory role of the hormone in 3T3-LT adipocytes." <i>Arch. Biochem. Biophys.</i> , Vol. 251:783-746
2	GF	Raines et al. (1991) "Identification and molecular cloning of a soluble human granulocyte-macrophage colony-stimulating factor receptor." <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 88:8203-8207
3	GG	Renauld et al. (1992) "Expression cloning of the murine and human interleukin 9 receptor cDNAs" <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 89:5690-5694
4	GH	Rose-John et al. (1994) "Soluble receptors for cytokines and growth factors: generation and biological function." <i>Biochem. J.</i> , Vol. 300:281-290
5	GI	Rothwell (1993) "Cytokines and thermogenesis." <i>Int. J. Obesity</i> , Vol. 17:S98-101
6	GJ	Saghizadeh et al. (1996) "The expression of TNF- $\alpha$ by human muscle: Relationship to insulin resistance." <i>J. Clin. Invest.</i> , Vol. 97:1111-1116
7	GK	Satal et al. (1996) "Hemostatic parameters in sepsis patients treated with anti-TNF $\alpha$ -monoclonal antibodies." <i>Shock</i> , Vol. 6:233-237
8	GL	Schall et al. (1990) "Molecular cloning and expression of receptor for human tumor necrosis factor." <i>Cell</i> , Vol. 61:361-370
9	GM	Schwartz et al. (1995) "Hypothalamic response to starvation : implications for the study of wasting disorders." <i>Am. J. Physiol.</i> , Vol. 269:R949-957
10	GN	Scuderi et al. (1986) "Raised serum levels of tumour necrosis factor in parasitic infections." <i>Lancet</i> , December 13:1364-1365
11	GO	Seckinger et al. (1988) "A human inhibitor of tumor necrosis factor $\alpha$ ." <i>J. Exp. Med.</i> , Vol. 167:1511-1516
12	GP	Seckinger et al. (1989) "Purification and biologic characterization of a specific tumor necrosis factor $\alpha$ inhibitor." <i>J. Biol. Chem.</i> , Vol. 264:11966-11973
13	GQ	Seitz et al. (1997) "In vitro modulations of cytokine, cytokine inhibitor, and prostaglandin E release from blood mononuclear cells and synovial fibroblasts by antirheumatic drugs." <i>J. Rheumatology</i> , Vol. 24:1471-1476
14	GR	Semb et al. (1987) "Multiple effects of tumor necrosis factor on lipoprotein lipase in vivo." <i>J. Biol. Chem.</i> , Vol. 262:3890-3894
15	GS	Senior et al. (1989) "Elastin degradation by human alveolar macrophages." <i>Am. Rev. Respir. Dis.</i> , Vol. 139:1251-1256
16	GT	Seth et al. (1991) "Circulating ICAM-1 isoforms: diagnostic prospects for inflammatory and immune disorders." <i>Lancet</i> , Vol. 338:83-84
17	GU	Severn, et al. "Regulation of tumor necrosis factor production by adrenaline and $\beta$ -adrenergic agonists" (1992) <i>J. Immunol.</i> , 148:3441-3445
18	GV	Shalaby et al., "Binding and regulation of cellular functions by monoclonal; antibodies against human tumor necrosis factor receptors" (1990) <i>J. Exp. Med.</i> , 172:1517-1522

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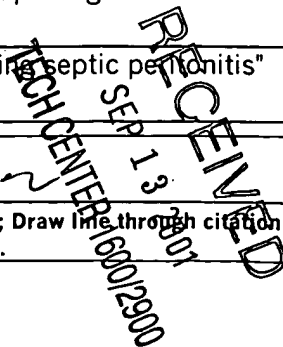
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	Shohami et al., "Cytokine production in the brain following; closed head injury: dexamabinol (HU--211) is a novel TNF- $\alpha$ inhibitor and an effective neuroprotectant" (1997) <i>J. Neuroimmun.</i> 72:169-177		
	GX Simon et al.; "Divergent T-cell cytokine patterns in inflammatory arthritis" (1994) <i>Proc. Natl. Acad. Sci. USA</i> 91:862		
	GY Smith et al., "A receptor for tumor necrosis factor defines an unusual family of cellular and viral proteins" (1990) <i>Science</i> 248:1019-1023		
	GZ Smith et al., "CD30 antigen, a marker for Hodgkin's lymphoma, is a receptor whose ligand defines an emerging family of cytokines with Homology to TNF" (1993) <i>Cell</i> 73:1349-1360		
	HA Speiser et al., "TNF receptor p55 controls early acute graft-versus-host disease" (1997) <i>J. Immun.</i> 158:5185-5190		
	HB Spengler et al., "Endogenous norepinephrine regulates tumor necrosis factor- $\alpha$ production from macrophages in vitro" (1994) <i>J. Immunol.</i> 152:3024-3031		
	HC Spiegelman et al., "Through thick and thin: Wasting, obesity, and TNF $\alpha$ " (1993) <i>Cell</i> ,73:625-627		
	HD Stack et al., "Randomised controlled trial of CDP571 antibody to tumour necrosis factor- $\alpha$ in Crohn's disease" (1997) <i>Lancet</i> 349:521-524		
	HE Stein et al., "Proteolytic processing of a plasma membrane-bound precursor to human macrophage colony-stimulating factor (CSH-1) is accelerated by phorbol ester" (1991) <i>Oncogene</i> 6:601-605		
	HF Takaki et al, "Molecular cloning and expression of the murine interleukin-5 receptor" (1990) <i>EMBO J.</i> 9:4367-4374		
	HG Talmadge et al., "Molecular pharmacology of the beta-adrenergic receptor oil THP-1 cells" (1993) <i>Int. J. Immunopharmacol.</i> 15:219-228		
	HH Tartaglia et al., "The two different receptors for tumor necrosis factor mediate distinct cellular responses" (1991) <i>Proc. Natl. Acad. Sci. USA</i> 88:9292-9296		
	HI Tartaglia et al., "Two TNF receptors" (1992) <i>Immunol. Today</i> 13:151-153		
	HJ Tiesman et al., "Identification of a soluble receptor for platelet-derived growth factor in cell-conditioned medium and human plasma", (1993) <i>J. Biol. Chem.</i> , 268:9621-9628		
	HK Tracey et al. "Cachectin/tumor necrosis factor induces lethal shock acid stress hormone responses in the dog" (1987) <i>Surg. Gynecol. Obstet.</i> 164:415-422		
	HL Tracey et al., "Anti-cachectin/TNF monoclonal antibodies prevent septic shock during lethal bacteraemia" (1987) <i>Nature</i> 330:662-664		
	HM Trehu, et al., "Phase I trial of interleukin 2 in combination with the soluble tumor necrosis factor receptor p75 IgG chimera," (Aug 1996) Vol. 2:1341-1351		
	HN van der Poll et al., "Tumor necrosis factor in sepsis: Mediator of multiple organ failure or essential part of host defense?" (1995) <i>Shock</i> - 3:1-12		
	HO van der Poll, et al., "Endogenous IL-10 protects mice from death during septic peritonitis" (1995) <i>J. Immunol.</i> 155:5397-5401		

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2	HP	van Deuren; "Kinetics of tumour necrosis factor-alpha, soluble tumour necrosis factor receptors, interleukin 1-beta and its receptor antagonist during serious infections" (1994) <i>Eur. J. Clin. Microbiol. Infect. Dis.</i> 13 (Suppl. 1):S12-S16
2	HQ	van Deventer et al.. "Monoclonal antibody therapy of inflammatory bowel disease" (1997) <i>Pharm. World.Sci.</i> 19:55-59
2	HR	Van Hogezaand et al., "New therapies for inflammatory bowel disease: an update on chimeric anti-TNF $\alpha$ antibodies and IL-10 therapy" (1997) <i>Scand. J. Gastro.</i> 223:105-107
2	HS	Van. Zee et al., "Tumor necrosis factor soluble receptors circulate during experimental and clinical inflammation and can protect against excessive: tumor necrosis factor a in vitro and in vivo"(1992) <i>Proc. Natl. Acad Sci. USA</i> 89:4845-4849
2	HT	Waage et al., "Detection of tumour necrosis factor-like cytotoxicity in serum from patients with septicaemia but not from untreated cancer patients" (1986) <i>Scand. J. Immunol.</i> 24:739-743
2	HU	Woesser, Jr. "Matrix metalloproteinases and their inhibitors in connective tissue remodeling" (1991) <i>FASEB J.</i> 5:2145-2154
2	HV	Yamamoto.et al., "FR167653, a dual inhibitor of interleukin-1 and tumor neurosis factor- $\alpha$ , ameliorates endotoxin-induced shock" (1997) <i>Eur. J. Pharmacol</i> 327:169-175
2	HW	Yui et al., "Cytotoxicity of tumour necrosis factor-alpha and gamma-interferon against primary human placental trophoblasts" (1994) <i>Placenta</i> 15:819-835
2	HX	Zamir et al., "Evidence that tumor necrosis factor participates in the regulation of muscle proteolysis during sepsis" (1992) <i>Arch. Surg.</i> 127:170-174
2	HY	Zhang et al., "Positional cloning of the mouse obese gene and its human. homologue" (1994) <i>Nature</i> 372:425-432
2	HZ	Zupan et al., "Identification, purification, and characterization of truncated forms of the human nerve growth, factor receptor" (1989) <i>J. Biol. Chem.</i> 264:11714-11720

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